AF I for

Air Force Invention No. AFB00500

Group Art Unit: 2876

Examiner: A. Kim

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On 14 January 2005

DATE OF DEPOSIT

Thomas C. Stover 22,531
NAME OF APPLICANT, ASSIGNEE, OR REG. REP.

SIGNATURE DATE

et 2/23/05

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of Mark Ahmadjian et al Serial No. 09/862,788

Filed: 18 May 2001

For: PLUME DETECTOR

Honorable Commissioner for Patents Alexandria, VA 22313-1450

Sir:

Supplemental Response After Final Under 37 CFR 1.116

This response supplements applicants' response dated 12-30-04.

The above Office Action rejection of claims 1-5, 7-9, 11 & 13-16, as obvious under 35 USC 103 (a) over Hill, Jr. et al. ('285) herein Hill, in view of Hertel et al. ('531), herein "Hertel" is again respectfully traversed.

The Hertel patent is cited to add a lock-in amplifier to the teachings of Hill in a 103 (a) rejection of applicants' listed above claims by the above Office Action.

However, the Hertel patent is believed not effective against applicants' above claims under 37 CFR 1.131 and 715 of the MPEP. This is because applicants have submitted herewith a

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Air Force Invention No. AFB00500

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Of

On 30 December 2004 (DATE OF DEPOSIT)

Thomas C. Stover 22,531
NAME OF APPLICANT, ASSIGNEE, OR REG. REP.

SIGNATURE

30 December 2004

Group Art Unit: 2876

Examiner: A. Kim

DATE

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of Mark Ahmadjian et al Serial No. 09/862,788 Filed: 18 May 2001

For: PLUME DETECTOR

Honorable Commissioner for Patents Alexandria, VA 22313-1450

Sir:

Response After Final Under 37 CFR 1.116

In response to the Office Action dated 11-02-04, finally rejecting claims 1-16, in the above identified application, is requested that the rejection of these claims be reconsidered in light of the following Response.

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APR 0 9 2003

7/Umdt 10 14-24-03 (NE)

Air Force Invention No. AFB00500C

Group Art Unit: 2876

Examiner: A. Kim

7/7/03

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On <u>20 March 2003</u> (DATE OF DEPOSIT)

Thomas C. Stover 22,531
NAME OF APPLICANT, ASSIGNEE, OR REG. REP.

SIGNATURE DATE

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of Mark Ahmadjian et al Serial No. 09/862,788 Filed: 18 May 2001

For: PLUME DETECTOR

Honorable Commissioner for Patents Washington D. C. 20231

Sir:

Amendment After Final Under 37 CFR 1.116

In response to the office action dated 21 January 2003, finally rejecting claims 1 15, in the above application, it is requested that the following amendment be entered since it may place the application in condition for Allowance or in better form for Appeal. Accordingly, please amend the application as follows:

IN THE CLAIMS

Amend the following claims per the clean copy shown below, as subsequently explained by a marked-up version attached as Exhibit A.

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